

## BACCALAUREATE PROGRAM TRANSFER FRAMEWORKS

### for PHYSICAL SCIENCES

<i>Programs (Majors) Offered in the Physical Sciences*</i>	<i>Universities Offering the Programs</i>	<i>Degrees Offered</i>
Chemistry, General	EKU	BA/BS
	KSU	BS
	MoSU	BS
	MuSU	BA/BS
	NKU	BA/BS
	UK	BA/BS
	UL	BA/BS
	WKU	BS
Earth and Planetary Sciences	MuSU	BA/BS
Geology	EKU	BA/BS
	MoSU	BS
	MuSU	BA/BS
	NKU	BA/BS
	UK	BS
	WKU	BS
Physics, General	EKU	BS
	MoSU	BS
	MuSU	BA/BS
	NKU	BA/BS
	UK	BA/BS
	UL	BA/BS
	WKU	BS

\*A separate framework is included in this section for each program (major) on the list.

## BACCALAUREATE PROGRAM TRANSFER FRAMEWORKS

### for BIOLOGICAL SCIENCES

<i>Program (Majors) Offered in the Biological Sciences*</i>	<i>Universities Offering the Program</i>	<i>Degrees Offered</i>
Agricultural Biotechnology	UK	BS
Biochemistry	WKU	BS
Biology, General	EKU	BS
	KSU	BS
	MoSU	BS
	MuSU	BA/BS
	NKU	BA/BS
	UK	BA/BS
	UL	BA/BS
	WKU	BS
Ecology	EKU	BS
	MoSU	BA/BS
Microbiology/Bacteriology	EKU	BS
Recombinant Genetics	WKU	BS

\*A separate framework is included in this section for each program (major) on the list.

## BIOCHEMISTRY -- CIP 26.0202

### TRANSFER MATRIX: Requirements of the Sending Institution

**General Education Transfer Component (33 hours) + Institutional General Education (15 hours) = General Education Total (48 hours)**  
**General Education Total (48 hours) + Specialty (12 hours) = Transfer Framework (60 hours)**

NOTES: A shaded column indicates the college or university does not confer a baccalaureate degree in this program.  
 However, course numbers in shaded columns indicate that the transfer framework may be completed at that institution.

The General Education Transfer Component should be completed according to the general education requirements for this major at the sending institution, unless specific course recommendations are listed.

General Education courses may also be counted toward the major, a minor, or a second major.

	EKU	KSU	MOSU	MUSU	NKU	UK	UL	WKU	CC
<b>General Education Transfer Component -- 48 hours</b>									
<i>Communication - 9 hrs</i>									
Written Communication - 6 hrs									
Oral Communication - 3 hrs									
<i>Humanities - 6 hrs</i>									
<i>Behavioral/Social Sciences - 9 hrs</i>									
<i>Natural Sciences - 6 hrs</i>									
<i>Mathematics - 3 hrs</i>								MATH 126	MA 113
Minimum College Algebra									
<i>Other Institutional General Education Requirements - up to 15 hrs</i>									
<b>Specialty Transfer Component -- 12 hours</b>									
Biology - 4-5 hrs								BIOL 120* & 121*	BIO 150* & 151*
Chemistry - 9-10 hrs								CHEM 120* & 121* & 222* & 223 & 115*	CHE 105* & 107*
Organic Chemistry - 5 hrs								CHEM 340 & 341	CHE 230* & 231*

\* Course may also meet institutional general education requirements.

Up to 6 hours of science coursework included in the Specialty Component meet institutional natural science general education requirements.

## CHEMISTRY, GENERAL -- CIP 40.0501

### TRANSFER MATRIX: Requirements of the Sending Institution

**General Education Transfer Component (33 hours) + Institutional General Education (15 hours) = General Education Total (48 hours)**

**General Education Total (48 hours) + Specialty (12 hours) = Transfer Framework (60 hours)**

NOTES: A shaded column indicates the college or university does not confer a baccalaureate degree in this program.  
However, course numbers in shaded columns indicate that the transfer framework may be completed at that institution.

The General Education Transfer Component should be completed according to the general education requirements for this major at the sending institution, unless specific course recommendations are listed.

General Education courses may also be counted toward the major, a minor, or a second major.

An 'M' below indicates that a minor, second major, or area of concentration outside the major is required.

	EKU	KSU	MOSU	MUSU	NKU	UK	UL	WKU	CC
<b>General Education Transfer Component -- 48 hours</b>									
<i>Communication - 9 hrs</i>									
Written Communication - 6 hrs									
Oral Communication - 3 hrs									
<i>Humanities - 6 hrs</i>									
<i>Behavioral/Social Sciences - 9 hrs</i>									
<i>Natural Sciences - 6 hrs</i>									
<i>Mathematics - 3 hrs</i>	MAT 124	MAT 201	MATH 175	MAT 250	MAT 120	MA 113	MATH 205	MATH 126	MA 113
Minimum College Algebra									
<i>Other Institutional General Education Requirements - up to 15 hrs</i>									
<b>Specialty Transfer Component -- 12 hours</b>									
Chemistry - 8-10 hrs	CHE 111* & 112	CHE 101* & 102	CHEM 111* & 112*	CHE 121* & 122*	CHE 120* & 120L* & 121* & 121L*	CHE 105* & 107* & 115*	CHEM 201* & 202* & 205 *	CHEM 120* & 121* & 222* & 223*	CHE 105* & 107* & 115*
Physics - 8-10 hrs	PHY 201* & 202	PHY 211* & 212	PHY 231* & 231A* & 232* & 232A*	PHY 235* & 236 & 255* & 256	PHY 220* & 221*	PHY 231* & 241* & 232* & 242*	PHYS 295* & 298* & 296* & 299*	PHY 250* & 251* & 270* & 271*	PHY 231* & 241* & 232* & 242*
Calculus II - 3-5 hours	MAT 224	MAT 202	MATH 275	MAT 308	MAT 220	MA 114	MATH 206	MATH 227	MA 114

\* Course may also meet institutional general education requirements.

Up to 6 hours of science coursework may meet institutional natural science general education requirements.

## EARTH AND PLANETARY SCIENCES -- CIP 40.0703

### TRANSFER MATRIX: Requirements of the Sending Institution

**General Education Transfer Component (33 hours) + Institutional General Education (15 hours) = General Education Total (48 hours)**  
**General Education Total (48 hours) + Specialty (12 hours) = Transfer Framework (60 hours)**

NOTES: A shaded column indicates the college or university does not confer a baccalaureate degree in this program.  
 However, course numbers in shaded columns indicate that the transfer framework may be completed at that institution.

The General Education Transfer Component should be completed according to the general education requirements for this major at the sending institution, unless specific course recommendations are listed.

General Education courses may also be counted toward the major, a minor, or a second major.

An 'M' below indicates that a minor, second major, or area of concentration outside the major is required.

	EKU	KSU	MOSU	MUSU	NKU	UK	UL	WKU	CC
<b>General Education Transfer Component -- 48 hours</b>									
<i>Communication - 9 hrs</i>									
Written Communication - 6 hrs									
Oral Communication - 3 hrs									
<i>Humanities - 6 hrs</i>									
<i>Behavioral/Social Sciences - 9 hrs</i>									
<i>Natural Sciences - 6 hrs</i>									
<i>Mathematics - 3 hrs</i>									
Minimum College Algebra									
<i>Other Institutional General Education Requirements - up to 15 hrs</i>									
<b>Specialty Transfer Component -- 12 hours</b>									
Geology - 8 hrs				GSC 101 & 102					GLY 140 & 142
Biology - 4-5 hrs				BIO 199 or BIO 121 or 122					BIO 150 & 151
Chemistry - 3-5 hrs				CHE 105 or 121					CHE 105
Physics - 5 hrs				PHY 120					PHY 211

\* Course may also meet institutional general education requirements.

Up to 6 hours of science coursework meet institutional natural science general education requirements.

## GEOLOGY -- CIP 40.0601

### TRANSFER MATRIX: Requirements of the Sending Institution

**General Education Transfer Component (33 hours) + Institutional General Education (15 hours) = General Education Total (48 hours)**  
**General Education Total (48 hours) + Specialty (12 hours) = Transfer Framework (60 hours)**

NOTES: A shaded column indicates the college or university does not confer a baccalaureate degree in this program.  
 However, course numbers in shaded columns indicate that the transfer framework may be completed at that institution.

The General Education Transfer Component should be completed according to the general education requirements for this major at the sending institution, unless specific course recommendations are listed.

General Education courses may also be counted toward the major, a minor, or a second major.

An 'M' below indicates that a minor, second major, or area of concentration outside the major is required.

	EKU	KSU	MOSU	MUSU	NKU	UK	UL	WKU	CC
<b>General Education Transfer Component -- 48 hours</b>									
<i>Communication - 9 hrs</i>									
Written Communication - 6 hrs									
Oral Communication - 3 hrs									
<i>Humanities - 6 hrs</i>									
<i>Behavioral/Social Sciences - 9 hrs</i>									
<i>Natural Sciences - 6 hrs</i>									
<i>Mathematics - 3 hrs</i>	MAT 124		MATH 175	MAT 250	MAT 120 or 121 & 122	MA 113		MATH 126	MA 113
Minimum College Algebra									
<i>Other Institutional General Education Requirements - up to 15 hrs</i>									
<b>Specialty Transfer Component -- 12 hours</b>									
Physical Geology - 3-4 hrs	GLY 108*		GEOS 100* & 107*	GSC 101*	GLY 110* & 110L*	GLY 101* & 111*		GEOL 111* & 113*	GLY 101* & 111*
Historical Geology - 3 hrs	GLY 109*		GEOS 201*	GSC 102*	GLY 115* & 115L*	GLY 102* & 112*		GEOL 112*	GLY 102* & 112*
Chemistry - 9-10 hrs	CHE 111* & 112		CHEM 111* & 112*	CHE 121* & 122*	CHE 120* & 120L* & 121* & 121L*	CHE 105* & 107* & 115*		CHEM 120* & 121* & 222* & 223*	CHE 105* & 107* & 115 *
Mineralogy - 4-5 hrs	GLY 309		GEOS 262*	GSC 201	GLY 303 & 303L	GLY 260		GEOL 330	GLY 260

\* Course may also meet institutional general education requirements.

Up to 6 hours of science coursework may meet institutional natural science general education requirements.

## PHYSICS, GENERAL -- CIP 40.0801

### TRANSFER MATRIX: Requirements of the Sending Institution

**General Education Transfer Component (33 hours) + Institutional General Education (15 hours) = General Education Total (48 hours)**  
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NOTES: A shaded column indicates the college or university does not confer a baccalaureate degree in this program.  
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An 'M' below indicates that a minor, second major, or area of concentration outside the major is required.

	EKU	KSU	MOSU	MUSU	NKU	UK	UL	WKU	CC
			M			M		M	
<b>General Education Transfer Component -- 48 hours</b>									
<i>Communication - 9 hrs</i>									
Written Communication - 6 hrs									
Oral Communication - 3 hrs									
<i>Humanities - 6 hrs</i>									
<i>Behavioral/Social Sciences - 9 hrs</i>									
<i>Natural Sciences - 6 hrs</i>									
<i>Mathematics - 3 hrs</i>	MAT 124		MATH 175	MAT 250	MAT 120 or (121 & 122)	MA 113	MATH 205	MATH 126	MA 113
Minimum College Algebra									
<i>Other Institutional General Education Requirements - up to 15 hrs</i>									
<b>Specialty Transfer Component -- 12 hours</b>									
Physics - 10-12 hrs	PHY 201* & 202		PHY 231* & 231A* & 232* & 232A*	PHY 235* & 236* & 255* & 256*	PHY 220* & 221* & 222*	PHY 231* & 241* & 232* & 242*	PHYS 295* & 298* & 296 & 299	PHYS 250* & 251* & 260* & 261* & 270* &	PHY 231* & 241* & 232* & 242*
Calculus 8-10 hrs	MAT 224 & 225		MATH 275 & 276	MAT 308 & 309	MAT 220 & 320	MA 114 & 213	MATH 206 & 301	MATH 227 & 320	MA 114 & 213

\* Course may meet institutional general education requirements.

Up to 6 hours of science coursework may meet institutional natural science general education requirements.